IN THE CLAIMS:

Please amend the claims as shown in the following listing of claims, which replaces all prior versions and listings of claims in the present application:

- (Currently amended) A substrate processing chamber component capable of being exposed to a plasma in a process chamber, the component comprising:
- (a) a substrate processing chamber component structure comprising a composed of metal; and
- (b) an electroplated coating on the substrate processing chamber component structure, the electroplated coating comprising an interface having a thickness with a gradually changing concentration of yttrium-containing species therethrough.
- 2. (Original) A component according to claim 1 wherein the yttrium-containing species comprises one or more of elemental yttrium and yttrium oxide.
- 3. (Original) A component according to claim 1 wherein the yttrium-containing species comprises yttrium oxide, and wherein the electroplated coating further comprises aluminum oxide or zirconium oxide.
- 4. (Previously presented) A component according to claim 3 wherein the electroplated coating comprises a compound comprising yttrium oxide and aluminum oxide.
- 5. (Original) A component according to claim 3 wherein the electroplated coating comprises partially stabilized zirconium oxide.

- 6. (Previously presented) A component according to claim 1 wherein the electroplated coating comprises a thickness having a gradually changing concentration of the aluminum-containing species therethrough.
 - 7. (Currently amended) A substrate processing chamber comprising:
 - (a) a wall around a process zone;
 - (b) a substrate support in the process zone;
 - (c) a ring about the substrate;
 - (d) a gas distributor;
 - (e) a gas energizer; and
 - (f) a gas exhaust port,

wherein at least one of the wall, substrate support, ring, or gas distributor, comprises a component capable of being exposed to a plasma in a process chamber, the component comprising a structure comprising a composed of metal, and having an electroplated coating comprising an interface having a thickness with a gradually changing concentration of yttrium-containing species therethrough, and

whereby a substrate transported into the process chamber can be processed by a gas released by the gas distributor, energized by the gas energizer, and exhausted by from the gas exhaust port.

- 8. (Previously presented) A chamber according to claim 7 wherein the yttrium-containing species comprises one or more of elemental yttrium and yttrium oxide.
- 9. (Previously presented) A chamber according to claim 7 wherein the yttrium-containing species comprises yttrium oxide, and wherein the electroplated coating further comprises aluminum oxide or zirconium oxide.
- 10. (Previously presented) A chamber according to claim 7 wherein the electroplated coating comprises a compound comprising yttrium oxide and aluminum oxide.

- 11. (Previously presented) A chamber according to claim 7 wherein the electroplated coating comprises partially stabilized zirconium oxide.
- 12. (previously presented) A chamber according to claim 7 wherein the electroplated coating comprises a thickness having a gradually changing concentration of the aluminum-containing species therethrough.

13 - 24. (Cancelled).

- 25. (Previously presented) A component according to claim 1 wherein the electroplated coating is fabricated by annealing a first electroplated layer comprising aluminum or zirconium, and a second electroplated layer comprising yttrium.
- 26. (Previously presented) A component according to claim 25 comprising annealing the layers to form oxidized species.
- 27. (Previously presented) A component according to claim 1 wherein the electroplated coating is fabricated by electroplating a layer comprising a mixture of (i) yttrium and (ii) aluminum or zirconium onto the surface, and annealing the layer.
- 28. (Previously presented) A substrate processing chamber component capable of being exposed to a plasma in a process chamber, the component comprising:
 - (a) a substrate processing chamber component structure; and
- (b) an electroplated coating on the substrate processing chamber component structure, the electroplated coating comprising yttrium-containing species and partially stabilized zirconium oxide, and the electroplated coating comprising a thickness having a gradually changing concentration of yttrium-containing species therethrough.

- 29. (Previously presented) A component according to claim 28 wherein the yttrium-containing species comprises one or more of elemental yttrium and yttrium oxide.
- 30. (Previously presented) A component according to claim 28 wherein the yttrium-containing species comprises yttrium oxide, and wherein the electroplated coating further comprises aluminum oxide.
- 31. (Previously presented) A component according to claim 28 wherein the electroplated coating comprises a compound comprising yttrium oxide and aluminum oxide.
- 32. (Previously presented) A chamber according to claim 28 wherein the electroplated coating comprises a thickness having a gradually changing concentration of the aluminum-containing species therethrough.
- 33. (Previously presented) A component according to claim 28 comprising a chamber wall, substrate support, ring, or gas distributor, of a process chamber.
- 34. (Previously presented) A component according to claim 1 wherein the electroplated coating is formed by:
- (i) immersing the surface of the component structure in an electroplating bath comprising a solution of yttrium species;
- (ii) connecting the component structure to a negative terminal of a voltage source; and
- (iii) connecting an anode immersed in the bath to a positive terminal of the voltage source, the anode comprising an inert material or material to be electroplated.

- 35. (Previously presented) A component according to claim 1 wherein the metal comprises an alloy.
- 36. (Previously presented) A chamber according to claim 7 wherein the electroplated coating is formed by:
- (i) immersing the surface of the component structure in an electroplating bath comprising a solution of yttrium species;
- (ii) connecting the component structure to a negative terminal of a voltage source; and
- (iii) connecting an anode immersed in the bath to a positive terminal of the voltage source, the anode comprising an inert material or the material to be electroplated.
- 37. (Previously presented) A chamber according to claim 7 wherein the metal comprises an aluminum alloy.
- 38. (Currently amended) A substrate processing chamber component capable of being exposed to a plasma in a process chamber, the component comprising:
 - (a) a substrate processing chamber component structure; and
- (b) an electroplated coating on the substrate processing chamber component structure, the electroplated coating comprising (i) yttrium-containing species, (ii) aluminum-containing species comprising at least one of elemental aluminum or aluminum oxide, and (iii) zirconium-containing species comprising at least one of elemental zirconium or zirconium oxide.
- 39. (Previously presented)A component according to claim 38 wherein the component structure comprises a metal.

- 40. (Previously presented)A component according to claim 38 wherein the electroplated coating comprising a thickness having a gradually changing concentration of yttrium-containing species therethrough.
- 41. (Previously presented) A substrate processing chamber comprising:
 - (a) a wall around a process zone;
 - (b) a substrate support in the process zone;
 - (c) a ring about the substrate;
 - (d) a gas distributor;
 - (e) a gas energizer; and
 - (f) a gas exhaust port,

wherein at least one of the wall, substrate support, ring, or gas distributor, comprises a component capable of being exposed to a plasma in a process chamber, the component comprising a structure having an electroplated coating comprising yttrium-containing species and partially stabilized zirconium oxide.

- 42. (Previously presented)A chamber according to claim 41 wherein the component structure comprises a metal.
- 43. (Previously presented)A chamber according to claim 41 wherein the electroplated coating comprising a thickness having a gradually changing concentration of yttrium-containing species therethrough.